SPECIAL PROVISIONS ADDENDUM NO. 1



City of Surprise CIP # 21304

Cactus Road Street Improvement Project 175th Avenue to Cotton Lane

PREPARED BY



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PART A: SCOPE OF WORK

1. PROPOSED WORK

This project is located in the City of Surprise and Maricopa County. The limits of improvements are in Cactus Road from 175th Avenue to Cotton Lane.

The work consists of preparation of base for pavement including roadway embankment, placement of new pavement, adjustment of valves and manholes, striping, signing, channel grading, traffic control, and other incidental items. Construction staking and as builts will be provided by the Engineer of Record under a separate contract with the City.

The work embraced herein shall be performed in accordance with the requirements of the following separate documents except as modified in these Special Provisions or on the Contract Plans. If a bid item is identified by more than one Standard Specification, the following is listed in priority.

City of Surprise Design Engineering Standards, August 2012

Maricopa County Department of Transportation Supplement to the Maricopa Association of Governments' Uniform Standard Specifications (January 1, 2013)

Maricopa Association of Governments "Uniform Standard Specifications for Public Works Construction" (2012, Revised thru 2014)

Maricopa Association of Governments "Uniform Standard Details for Public Works Construction", (2012, Revised thru 2014)

Arizona Department of Transportation, Standard Specifications for Road and Bridge Construction, Edition of 2008.

Arizona Department of Transportation, Highways Division, Traffic Signals & Lighting Standard Drawings, 2013.

Arizona Department of Transportation, Signing and Marking Standard Drawings, 2014.

Arizona Department of Transportation, Structures Standard Drawings, 2012.

Arizona Department of Transportation, Roadway Engineering Construction Standard Drawings, 2012.

Manual on Uniform Traffic Control Devices for Streets and Highways, 2009 edition and Arizona Supplement to the 2009 edition, May 2012

All other City of Surprise Department policies and procedures where applicable.

The above Items of work along with the construction requirements are adequately described and defined in the Uniform Standard Specifications for Public Works Construction sponsored and distributed by the Maricopa Association of Governments (MAG) along with the MAG Uniform

Standard Details and the City of Surprise Supplements thereto, latest revisions, or within these special provisions. In the event of conflict, the City of Surprise Supplements will prevail.

The information written into these special provisions will:

Describe any special or unusual conditions.

Explain details of the work not covered in the MAG Specifications and Details or the City of Surprise supplements thereto.

Relate certain work to specific bid Items or payment quantities.

Contain the specifications and/or requirements of utility companies affected or included within the drawings and specifications of this project.

General construction notes for City of Surprise Public Works projects are included in the plan set and shall be representative, unless specifically noted otherwise, to all plan sheets.

PART B: GENERAL INFORMATION

1. SALES AND USE TAXES

The Contractor shall not include sales or use taxes on certain materials and equipment to be installed on this project as described in Arizona Revised Statutes 42-1316 and 42-1409.

The Contractor shall furnish the City with a list of suppliers including materials and equipment furnished by each, which are applicable to this exemption.

2. PRECONSTRUCTION CONFERENCE/WEEKLY MEETINGS

Preconstruction Conference: The Contractor and all subcontractors shall attend a preconstruction conference meeting at a time and location designated by the City. The Contractor shall be prepared and ready to present to the City all required schedules, plans, etc., as described elsewhere in these special provisions and within the MAG Standard Specifications.

Weekly Meetings: The Contractor shall plan for and attend weekly meetings with the City at a location and designated time determined by the City. The Contractor shall include in the construction schedule adequate time for weekly construction progress meetings.

Contractor shall submit a 2-week schedule at each meeting and prepare and distribute meeting minutes within 48 hours following the meeting.

Contract Documents: Approved drawings, data, mixes and certificates as they are returned to the Contractor will become a portion of the Contract Documents.

3. PUBLIC NOTIFICATION

Unless otherwise directed by the City, the Contractor shall notify all residents, businesses, and schools located along the frontage (1/4 mile radius) of a specific project by handbill or door-hanger, no later than 48 hours and no earlier than 2 weeks prior to commencement of the work phase. The handbill shall include the Contractor's phone number, work day schedule, and approximate start of construction and road opening dates. The Contractor shall re-notify all areas where work was not performed as scheduled. Door-hangers shall be bright yellow with red lettering and shall be 3 to 5 inches wide by 10 to 12 inches long. Door-hangers shall be pre-cut to be readily secured to doorknobs and pulls, so that they cannot be inadvertently detached or blown off. Any costs associated with notification or re-notification shall be considered incidental to the project.

The Contractor shall provide black-on-orange pre-construction advisory signs to be placed near the eastern and western boundaries of construction, two full calendar weeks prior to start of the project. The signs shall state that a roadway project is to take place, the planned dates of start and finish, and shall state that an alternate route of travel is suggested. Sign dimensions may vary according to application and will be determined by the City. This provision is for use on streets where handbill notification is not practical. This requirement is not a separate pay Item.

The City may require the stationing of lighted variable message signs prior to and during the work phase for pre-notice and to facilitate traffic movement and promote work zone safety. This may be required at Cotton Lane and/or 175th Avenue. Lighted variable message boards used during the

project phase will be invoiced to the City at the actual cost incurred by the Contractor. All other traffic control costs are to be considered incidental to the project.

Contractor to coordinate with the City Engineer or their Representative for Public Notification Guidelines.

4. CONSTRUCTION PRACTICE

All construction practices and procedures shall conform to Section 107 of the Contract Works Hours and Safety Standards Act, (US Stat. 96, 40 USC 327) the latest revisions shall prevail.

5. INSPECTION

Inspectors may be stationed on the work to report to the City or his Designee as to the progress of the work, the manner in which it is being performed, and also to report whenever it appears that material furnished or work performed by the Contractor fails to fulfill the requirements of the specifications and contract. The Inspector may direct the attention of the Contractor to such failure or infringement but such inspection shall not relieve the Contractor from any obligation to furnish acceptable materials or to provide completed construction that is satisfactory in every particular.

In case of any dispute arising between the Inspector and the Contractor as to material furnished or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question and issue can be referred to and decided by the City. Inspectors are not authorized to revoke, alter, enlarge, relax, or release any requirements of the specifications. Inspectors shall in no case act as foremen or perform other duties for the Contractor or interfere with the management of the work by the Contractor.

Inspection or supervision by the City or Designee shall not be considered as direct control of the individual workman and his work. The direct control shall be solely the responsibility of the Contractor.

6. WORKMANSHIP

Where not more specifically described, workmanship shall conform to all of the methods and operations of best standards and accepted practices of the trade or trades involved and shall include all Items of fabrication, construction or installation regularly furnished or required for completion.

All work shall be executed by tradesmen skilled in their respective lines of work.

When completed, all work shall have been durably and substantially built and shall present a neat, workmanlike appearance.

7. LIMITS OF WORK

The Contractor in cooperation with the City's Inspector shall verify the boundaries of the work prior to the start of construction. Upon starting construction, the Contractor shall video the work site, including all boundary areas, to document the existing conditions of areas outside the delineated work area. Boundaries of work are hereby established as the furthest line distant left or right of the construction centerline as existing right of way, new right of way, drainage easement or temporary

construction easement as shown on the plans. Once construction activities have commenced, no disturbance of the existing ground beyond such delineated line shall take place. Intrusion outside of the limits by the Contractor will be penalized \$100 per square yard. Any aggregated amount shall be deducted from the Contractor's final payment.

8. PLANS AND SHOP DRAWINGS

Plans and Shop drawings shall conform to Section 105.2 of the MAG Standard Specifications except as modified as follows:

The Contractor shall furnish to the City of Surprise's Construction Coordinator, product data, material certificates, mix designs and shop drawings in sufficient detail to show complete compliance with all specified requirements, including but not necessarily limited to the following:

Materials:

The Contractor shall furnish to the City of Surprise's Project Manager product data, material certificates, mix designs and shop drawings in sufficient detail to show complete compliance with all specified requirements, including but not necessarily limited to the following:

Product Data:

- Barriers
- Guardrails

Product data shall include information such as the manufacturer's printed recommendations, compliance with recognized trade association standards, application of testing agency labels and seals, product dimensioning, and notation of coordination requirements.

The Contractor shall also furnish to EPCOR Water Company and the City of Surprise Project Manager product data and shop drawings in sufficient detail to show complete compliance with all specified requirements, including but not necessarily limited to the following:

Product Data:

- Water Valve Adjustments
- Water Blow Off Adjustments

Product data shall include information such as the manufacturer's printed recommendations, compliance with recognized trade association standards, application of testing agency labels and seals, product dimensioning, and notation of coordination requirements.

Certificates:

Striping Materials

The certificates shall be prepared by the Manufacturer or testing agency thereof and should include technical specifications and compliance with industry trade association and testing agency standards.

Shop Drawings:

- Sequence of Construction details
- Traffic Control Plans-haul routes
- Utility protection plans

Shop drawings shall include the name of the project, project number, date prepared, name of the Preparer, Contractor, and Subcontractor, if applicable. All dimensions and identification of products and materials included, along with notation of any coordination requirements and established field dimensions/measurements/verifications shall be clearly shown or noted.

Drawings of minor or incidental fabricated material and/or equipment may not be required by the City of Surprise. The Contractor shall furnish the City tabulated lists of such fabrications, showing the names of the manufacturers and catalog numbers, together with samples of general data as may be required to permit determination by the City as to their acceptability for incorporation into the work.

Samples:

Aggregate base course

Samples shall be representative of the materials to be incorporated into the project and submitted in sufficient quantity to permit evaluation and/or comparison.

Distribution and Review:

The contractor shall anticipate and schedule for a two week review period by the City of Surprise and/or its designee during which time will either approve, disapprove, or request modifications. The latter two will require re-submittal of the material and a subsequent additional review period. This process shall be repeated until all submitted materials have been approved.

Shop drawings shall be on sheets in standard size increments between 8 1/2" x 11" and 11" x 17" or 24" x 36". All drawings shall indicate the name of the job, the City's job number, date, names of the Contractor, Subcontractor and Preparer, and the date of approval by the Contractor. All other data, certificates or mix design reports shall be presented on 8 $\frac{1}{2}$ " x 11" formats, or as provided by the Supplier/Manufacturer.

Five (5) Contractor approved copies along with a letter of transmittal shall be delivered to the City's Construction Coordinator. The Contractor shall first review all submitted data for compliance with specification and job requirements. Any Contractor comments, recommendations, etc. shall be clearly noted on the submitted data.

If the submittal is acceptable, three (3) copies will be stamped approved, dated, initialed by the Reviewer, and returned to the Contractor.

If the submittal requires corrections or is rejected, three (3) copies along with an explanation of the outstanding concerns will be returned to the Contractor for revision and resubmittal as described above.

Re-submittal of any required corrections shall be made within ten working days.

Contract Documents:

Approved drawings, data, mixes and certificates as they are returned to the Contractor will become a portion of the Contract Documents.

9. COOPERATION WITH UTILITIES

Cooperation of Utilities shall conform to Section 105.6 of the MAG Standard Specifications except as modified as follows:

Utility locations shown on the plans are approximate. The contractor shall be responsible for identifying all underground utility locations where construction occurs. The contractor shall notify Blue Stake 602.263.1100 at least two working days prior to beginning construction for field location of existing utilities. Should a utility be damaged during construction activities, the contractor shall contact Blue Stake and the utility company immediately.

The contractor shall exercise special care and shall follow the utility company's procedures while working near high pressure gas lines or high voltage overhead or underground electric facilities.

The locations of existing underground utilities have been shown on the plans to the best of the Design Engineer's knowledge; however, it shall be the Contractor's responsibility to field verify all utility locations and to coordinate in a timely manner with the pertinent utility companies so that any obstructing utility installation may be adjusted without delay to the Contractor's project schedule. Contractor shall adequately protect and maintain all existing utilities. Any utility, whether shown or not, damaged due to construction shall be repaired immediately at the contractors expense.

In addition, the City of Surprise shall not consider additional compensation requests from the Contractor to perform any potholing, utility company coordination, etc. needed to locate/verify utility location, to adjust contract work items as necessary to avoid utility line conflict, to cooperate with utilities in adjusting schedule as needed to allow for utility company work, relocations, etc.

The following utility companies are known to have facilities in the area of this project. The appropriate individuals to contact and their telephone numbers are listed for the Contractor's convenience:

Utility Provider	Contact Person	Phone Number
Maricopa Water District	Don Breeding	623.546.8266
Arizona Public Service	Claudio Rios	623.975.5808
City of Surprise	Suneel Garg	623.222.6130
Cox Communication	Corey Rosipko	623-328-3554
Southwest Gas	Jeremy Elser	602-484-5649
Centurylink	Eric Hitchcock	6024601233
EPCOR	Josh Vig	623.445.2495

Arizona Public Service:

The Contractor shall contact Arizona Public Service (APS) representative a minimum of 48-hours prior to any construction activity adjacent APS facilities.

10. COMMENCEMENT, PROSECUTION AND PROGRESS

Commencement, Prosecution and Progress shall conform to Section 108.2 of the MAG Standard Specifications except as modified as follows:

The Contractor shall perform, with his own organization, work amounting to not less than 50% of this contract.

11. CONSTRUCTION SCHEDULE

Construction Schedule shall conform to Section 108.4 of the MAG Standard Specifications except as modified as follows:

The Contractor shall furnish the City a construction schedule for review. The City's review of the Contractor's schedule is for the purposes of 1) the City's staffing the project as may be required; 2) to insure general compliance with the contract documents as it relates to the completion of the work; and 3) to monitor and evaluate the construction status for purposes of approving progress payments. In the event the schedule does not contain sufficient information to meet the above purpose, as determined by the City, the Contractor shall resubmit a new schedule with the additional information requested by the City. The construction schedule shall not be changed without the written consent of the City. The orderly procedure of all work to be performed shall be the responsibility of the Contractor.

The schedule shall identify the work to be performed, including the location and duration of planned activities. Submittals shall be made a minimum of seven days prior to the planned work to allow sufficient time for the City to review and schedule any necessary inspections.

The Contractor shall provide weekly updates to the construction schedule for review with the Construction Coordinator or duly authorized representative. Failure to provide such weekly updates will result in retention of monthly progress payments until the schedule is updated.

Review of a submitted schedule by the City shall in no way be construed as an affirmation or admission that the schedule is reasonable or workable which responsibilities remain the obligations of the Contractor. When the schedule shows a completion prior to the contract completion date, this extra time between the contract completion date and the scheduled completion date (float), may be used by the City without additional compensation to the Contractor. The City shall not be liable to the Contractor for any damages for delay if the Contractor completes the work prior to the expiration of the original Contract completion date or as modified by approved change orders, if any.

12. LIMITS OF OPERATIONS

Section 108.5, Limitations of Operations of the MAG Standard Specifications are modified as follows:

The project may be sequenced as the Contractor desires, subject to review by the City.

Access to Business and Residences along Cactus Road and Intersecting Side Streets:

The Contractor shall schedule his work in such a manner that once construction begins, it shall be completed in an expeditious manner. Access to businesses and residences must be maintained between the hours of 5:00 AM and 10:00 PM. Periodic, infrequent closures of short duration (less than two-hours) must be coordinated with the affected businesses and residents. Prior to any closures of accesses, the Contractor shall give adjacent businesses and residences 48 hours notice and provide them with a schedule as to when they would have full access restored. Access to fire lane shall remain open at all times.

The Contractor shall publish and distribute a monthly update letter to all affected businesses and residences. The update letter shall be reviewed by the City's Project Manager prior to printing and distribution. The first letter shall be distributed the business day after the Pre-Construction Conference.

Contractor to coordinate limits of operations with the City Engineer or their Representative.

13. ADDITIONAL CONSIDERATIONS

Irrigation systems in landscaped areas disturbed by contractor's operations shall be restored to original functioning order.

14. SAWCUTTING

No measurement or direct payment will be made for saw or wheel cutting, the cost being considered as included in the price of contract Items. Sawcutting shall be required at all pavement tie-in locations.

15. MATERIAL SAFETY DATA SHEETS

Contractor to supply Material Safety Data Sheets to the City Engineer or their Representative for all items utilized on the project.

16. PERMITS

Permitting Section 107.2 of the MAG Standard Specifications shall be deleted and the following inserted:

It shall be the responsibility of the Contractor to obtain all required permits for construction, dust control, relocation of native plants, erection of signs, traffic signals, etc. Including no cost permits from Maricopa County Department of Transportation and Flood Control District of Maricopa County.

The contractor shall be the responsible for contacting Maricopa County Department of Transportation-Development Services to submit TCPs and obtain a permit for the possible closure or restriction of 175th Avenue west of Cactus Road.

City permits will be issued at no charge, but any other permits or fees needed for the work will be paid for by the Contractor.

A special grading permit at the Contractor's expense will be required when using spoils to fill private property. No grading will be allowed until a Grading and Drainage Plan has been approved by the City.

All haul routes for removals, excavation and dirt moving must be approved by the City of Surprise prior to commencement of operations.

This project is subject to the Maricopa County Air Pollution Control Regulations. The Contractor shall comply with the provisions of Surprise MAG Supplemental Specification Subsection 107.2.2.

This project is subject to the National Pollutant Discharge Elimination System (NPDES) storm water requirements for construction sites under the Environmental Protection Agency (EPA) General Permit for Arizona.

17. SCHEDULE OF LABOR AND EQUIPMENT

Contractor to provide a Schedule of Labor and Equipment Costs on a Time and Material Basis with their construction bid. This should include Project Manager, Project Engineer, Superintendent, etc. to the City Representative two weeks after notification of award.

19. RECORD DRAWINGS

Contractor shall provide Record Drawings which shall clearly show all differences between the contract work as drawn and as installed for all work, as well as work added to the contract which is not shown on the Contract Drawings.

The Contractor shall maintain one set of Record Drawings at the job site. These shall be kept legible and shall be available for inspection at all times by the City. Show all changes in the contract work, or work added, on these Record Drawings in a contrasting color (red) including work changed by Addendum or Approved Change Order.

City shall review the Record Drawings on a monthly basis and shall be the sole judge of the acceptability of these drawings. Update Record Drawings showing all as-built construction shall accompany each progress payment submittal.

Upon completion of the project, submit final Record Drawings to the City for final review. Upon receiving approval by the City of the Record Drawings, deliver them together with one set of prints to the City's project manager. Final acceptance of the project will not be given until all such information is submitted.

20. CONTRACT TIME

The Contractor shall complete all project work within 60 days beginning with the start date specified in the Notice to Proceed.

PART C: BID ITEMS

The following bid Items are numbered to correspond to the Schedule of Bid Items and are included to explain details of work not covered by applicable Standard Specifications and to relate work and pay quantities to the specific Bid Item.

Any Items of work shown on the plans but not covered by bid Items, as shown on the bid schedule, shall be considered incidental to the project.

Item 1 - Mobilization / Demobilization, Complete

<u>Description:</u> Mobilization/Demobilization shall be per Section 109 of the MCDOT Supplement to MAG Standard Specifications.

<u>Measurement and Payment:</u> Payment for Mobilization/Demobilization will be paid at the lump sum as specified in the Schedule of Bid Items and shall include all labor and materials.

Item 2 - Traffic Control, Complete

<u>Description:</u> The Contractor will be able to close Cactus Road between 175th Ave and Cotton Lane and detour traffic north on 175th Ave to Waddell Road. Traffic control shall conform to Section 401 MCDOT Supplement to the MAG Standard Specifications except as modified as follows:

MAG Standard Specifications shall be modified to include:

It shall be the responsibility of the contractor to develop and implement a traffic control plan for the project. The Contractor shall use the current City of Surprise "Temporary Work Zone Traffic Management Policy" available on the City's website. If there is a discrepancy between the following traffic specifications and the City of Surprise "Temporary Work Zone Traffic Management Policy" the City policy shall govern. Part IV of the "Manual On Uniform Traffic Control Devices For Streets And Highways" (U.S. Department of Transportation, Federal Highway Division) and all revisions thereto, the Traffic Manual from the City of Phoenix and all revisions thereto, shall serve as a guideline in Contractor's application of traffic control.

It shall be the Contractor's responsibility to provide, erect and maintain and remove after completion of the work all necessary signs, barricades, temporary traffic signals, barriers, berms, lights, high level warning devices, delineators, and any other required devices, uniformed officers, and flagman, necessary to properly mark and control the construction area for the safe and efficient movement of traffic. Temporary traffic control devices shall be installed prior to the start of any work.

It shall be the Contractor's responsibility to construct the required by pass lanes in order to make the road available to traffic. The City of Surprise's approval of the Contractor's traffic control method shall not relieve the Contractor of its responsibility to protect the work, Contractor's personnel, or the general public.

The Contractor must notify the Traffic Engineering Division at phone (623) 222-6150 of all traffic restrictions of City roads and streets. The notification may be by FAX submittal at phone number (623) 222-1701. The Traffic Control Plans (TCP) and notification must be submitted for review at least two working days (48 hours) prior to start of construction. Form TE-1 shall be completed in full

and submitted with the TCP to begin review. Construction is not authorized to proceed without the City's approval of the TCP and concurrence that construction can precede with minimum public and traffic impact. Once Form TE-1 is approved and returned, any changes to the TCP or specific information approved in a previous submittal shall require a re-submittal of Form TE-1 and the TCP.

The Contractor shall provide and maintain all necessary signs, barricades and centerline vertical panels for five (5) working days beyond the concrete cure time or acceptance of the project by the Engineer, whichever period is greater.

<u>Traffic Control Plan:</u> of the MCDOT Supplement to the MAG Uniform Standard Specification is revised to read:

The Contractor shall submit a traffic control plan for approval, showing placement of all traffic control devices, including all conflicting signs to be covered/removed or relocated, or other features that may conflict with the placement of temporary signage. This plan shall be professionally drawn on a 24" x 36" reproducible medium, and shall be submitted to the Engineer at the pre-construction meeting unless otherwise directed.

Item 3 - AZPDES Plan & Notification, SWPPP implementation, Complete

<u>Description:</u> AZPDES Plan and Notification shall conform to Section 107.2 of the MAG Standard Specifications except as modified as follows:

<u>General:</u> The work under this Item shall consist of preparing and providing an Arizona Pollutant Discharge Elimination System (AZPDES) and Notification in accordance with the requirements of the Arizona Department of Environmental Quality's (ADEQ) Construction General Permit and implanting the SWPPP plan BMP's.

The steps the Contractor shall take include:

Submission of a Notice of Intent (NOI) that includes general information and location to closest water body; Implementation of the Storm Water Pollution Prevention Plan (SWPPP) with appropriate BMPs to minimize the discharge of pollutants from the site. The operator (Contractor) must submit the SWPPP along with the NOI if the site is located within 1/4 mile of a unique or impaired waters*; and Submission of a Notice of Termination (NOT) when final stabilization of the site has been achieved as defined in the CGP or when another operator has assumed control of the site.

*"Unique waters" are listed in AAC R18-11-112 and "impaired waters" are waters that do not meet designated uses and are listed as such under Section 303 of the Clean Water Act.

The Contractor shall provide copies of all plans and notifications to the Engineer.

<u>Method of Measurement:</u> Measurement for AZPDES Plan and Notification and implementation of SWPPP BMP's per the approved plans shall be on a lump sum basis.

<u>Basis of Payment:</u> The accepted quantities for AZPDES Plan and Notification measured as provided above will be paid for at the lump sum price, as specified in the Schedule of Bid Items, which price will be full compensation for the work complete in place, as shown on the plans and as specified in the specifications.

Item 4 - Dust Control

<u>Description:</u> Water Supply Section 225.2 of the MAG Standard Specifications is revised to add the City of Surprise Construction Water Guidelines.

The Contractor shall <u>also</u> obtain and comply with a Dust Control Permit issued by Maricopa County Air Quality Department.

<u>Measurement and Payment:</u> Payment for Dust Control will be paid at the unit price of lump sum as specified in the Bid Schedule and shall include all labor and materials.

Item 5 – Material and Geotechnical Testing

Description: Material and/or Geotechnical Testing

General: The Contractor shall furnish all materials, personnel, and equipment necessary to perform all material and geotechnical testing to ensure that all work conforms to MAG, MCDOT and City of Surprise requirements. The work shall be done under the direction of a Registered Professional Engineer licensed to practice in the State of Arizona.

<u>Measurement and Payment:</u> Payment for Material Testing will be paid at the unit price of lump sum as specified in the Schedule of Bid Items and shall include all labor and materials

Item 6 - Clearing & Grubbing, Complete

<u>Description:</u> Clearing and Grubbing shall conform to Section 201 of the MAG Uniform Standard Specs except revised to add:

<u>General:</u> Irrigation systems in landscaped areas disturbed by contractor's operations shall be restored to original functioning order.

The un-landscaped areas within the City right-of-way, including the channel limits shall be included in the clearing, grubbing operations and re-graded to its original intended configuration.

Areas shall be treated with a pre-emergence control, such as "Surflan" or equal, applied in accordance with manufacturer's recommendations.

<u>Measurement and Payment:</u> No additional payment will be made for clearing and grubbing of areas affected by the roadway widening since the cost shall be included in the bid price for the construction or installation of said items and is considered incidental or appurtenant.

Item 7 - Roadway Excavation, Including Haul Off and/or Import, Complete

<u>Description:</u> Roadway Excavation shall conform to Section 205 of the MAG Standard except as modified as follows:

The work under this Item shall consist of all earthwork within the right-of-way required to construct the road per the plans, including excavating, sloping, rounding tops and ends of excavations, providing fill materials, hauling, loading, depositing, conditioning, importing, spreading and compacting the material complete in place and disposal of surplus material.

Materials: Materials shall be per MAG Standard Specifications Part 200.

Should import material be necessary, it shall meet the requirements of Section 210 of the MAG Standard Specifications.

<u>Construction Requirements:</u> The Contractor shall haul off and dispose of all surplus material in accordance with federal, state and local regulations.

All embankments shall be compacted to 95 percent of the ASTM D698 maximum dry density in each lift

All embankments outside the pavement and/or curb line shall be native soils in which all materials larger the one-inch in diameter has been removed. It cannot contain any non-organic materials such as pavement or concrete remnants. If imported, the material shall conform to MAG Section 210. Clean fill soil is intended for those areas outside the pavement and/or curb line where future landscaping and irrigation will be installed.

<u>Measurement and Payment:</u> Measurement will be on a lump sum basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for earth work (including roadway excavation or fill construction) on a lump sum basis. This work shall include excavating, sloping, rounding tops and ends of excavations, loading, depositing, conditioning, spreading, and compacting the material complete in place and/or disposal of surplus material or import of required material.

Item 8 - Rip Rap, D50=6", thickness as specified on construction plans with High Survivability Filter Fabric, Complete

<u>Description:</u> The construction of riprap shall consist of furnishing and placing stone with or without grout or sacked concrete riprap. The depth and type of riprap shall be as shown on the plans in accordance with MAG Section 220. High Survivability Filter Fabric per Section 224 of the MDDOT Supplements to the MAG Standard Specifications.

<u>Measurement and Payment:</u> Measurement will be on a square yard` basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Rip Rap with High Survivability Filter Fabric which will be paid at the unit price per square yard as specified in the Bid Schedule. This unit price shall include all labor and materials.

Item 9 – Subgrade Preparation, Complete

<u>Description:</u> Subgrade Preparation shall conform to Section 301 of the MAG Standard Specifications except as modified as follows:

<u>General:</u> This Item additionally includes for all excavation, fill, grading, and compaction to prepare the subgrade graded shoulders in accordance with MAG Sections 205 and 301 and current supplements.

<u>Measurement and Payment:</u> Measurement will be on a square yard basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment subgrade preparation. No separate measurement or additional payment will be made for grading and compacting the shoulders and side slopes outside the edge of pavement as part of this line item. This work will be considered as incidental and included in the price bid for this Item.

Item 10 - Pavement Section 1 (2" D $\frac{1}{2}$ "AC on 3" C $\frac{3}{4}$ " AC (High Volume) on 9" ABC Class 2), Complete

<u>Description:</u> Asphalt Concrete Pavement shall conform to Section 321 of the MAG Standard Specifications except as modified as follows:

<u>General:</u> The surface course shall not be placed until all landscaping has been completed and accepted and all work that might result in earth being deposited on the finished road has been completed.

Measurement: Text in Section 321.8 shall be deleted and the following inserted:

Measurement shall be made to the nearest square yard within the designated limits of paving shown on the plans, and shall include any tack coat per MAG Standard Specification 329. The quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment.

Payment: Text in Section 321.9 shall be deleted and the following inserted:

Pavement will be paid at the unit price bid per square yard as indicated on the Schedule of Bid Items, which amount will be considered full compensation for the work complete and in place including any specified tack and/or prime coats. Upon completion of the base course of pavement, the Contractor shall be eligible to receive 85% of the unit cost, with the remaining 15% paid when the surface course is completed.

Replace Damaged Pavement: The Contractor will be responsible to replace, at their cost, any and all damaged pavement outside the pay limits, due to their activities on the project. This includes, but is not limited to, the replacement of newly cracked pavement, the replacement of existing cracked pavement where the cracks have been widened, the replacement of any chipped or missing pieces of pavement, and the replacement of any deformed pavement. The pavement will be sawcut at right angles to the roadway, to encompass the replacement areas.

<u>Item 10 Bid Alternate:</u> Install Pavement Section 3" C ¾" AC (High Volume) on 11" ABC Class 2, Complete

Item 11 - Thickened Edge per MAG Standard Detail 201, Type "A", Complete

<u>Description:</u> Thickened Edge shall be constructed per MAG Standard Detail 201, Type A.

<u>Measurement and Payment:</u> Measurement will be on a linear foot basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Thickened Edge at the unit price per linear foot as specified in the Bid Schedule and shall include all labor and materials.

Item 12 - Grade Roadside Swale / Shoulder per approved plans Complete

Description: Grade the roadside shoulders and drainage swale per the plans and specifications.

<u>Measurement and Payment:</u> Measurement will be on a linear foot basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for grading the roadside swale / shoulder at the unit price per liner foot as specified in the Bid Schedule and shall include all labor and materials.

Item 13 - Manhole Frame and Cover Adjustment per MAG Standard Detail 422

<u>Description:</u> Manhole Frame and Cover shall be adjusted per MAG Standard Detail 422. Prior to lowering the existing manholes, the contactor will determine if the manholes are constructed to an elevation sufficient to allow final adjustments to be made with the quantity of grade rings allowed by MAG Standard Details. If the Contractor determines the manholes are not constructed to an elevation sufficient to allow final adjustment per MAG Standard Details, the Contractor will be required to modify the manholes by removing and/or replacing manhole sections and/or cones as necessary to allow the proper adjustments. There will be no extra payment if the manholes need to be modified.

<u>Measurement and Payment:</u> Measurement will be on an each unit basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Manhole Frame and Cover adjustments paid which will be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 14 - Water Valve or Sewer Cleanout Adjust Per MAG Standard Detail 270

Description: Water Valve shall be adjusted per MAG Standard Detail 270.

<u>Measurement and Payment:</u> Measurement will be on an each unit basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Water Valve Adjustments which will be paid at the unit price per each as specified in the Bid Schedule and shall include all labor and materials.

Item 15 - Remove and Replace Asphalt Concrete Pavement

<u>Description:</u> Sawcut, Remove and Replace Asphalt Concrete Pavement to conform to Section 350 of the MAG Standard Specifications except as modified herein.

<u>General:</u> The work under this item is for the removal and replacement of existing asphaltic concrete pavement and ABC to a width as indicated on the plans. The depth shall match the greater of existing or of that specified in Item 13. Contractor shall take every precaution necessary to prevent the exposed base material from becoming contaminated with debris or other material. Any excess materials from milling or other removal techniques not used on the project will be removed by the Contractor to a site of their choosing off the project area.

<u>Measurement & Payment:</u> Payment for sawcutting and removing asphaltic concrete pavement, including base course if necessary, shall be at the unit price per square yard specified in the Bid Schedule and shall include all labor and materials required to remove and dispose of the pavement to a location off of the project site. Sawcutting if necessary shall be incidental to this item.

Item 16 – Obliterate Existing Pavement Marking, Complete

<u>Description:</u> All existing pavement markings that are in conflict with proposed pavement markings shall be obliterated.

<u>General:</u> Existing pavement markings shall be removed by water blasting or City approved methods to the satisfaction of the City Engineer or their Representative.

<u>Measurement and Payment:</u> Payment for Obliteration of Pavement Marking will be paid by lump sum as specified in the Bid Schedule and shall include all labor and materials.

Item 17- Traffic Control Signs, Posts and Bases per COS Standard Detail 4-22, Flat Aluminum Sign Panel, Diamond Grade, Flat Aluminum Sign Panel High Intensity, MCDOT Standard Specifications Section 465, Complete

<u>Description:</u> Traffic Control signs, posts, bases, per City of Surprise Standard Detail 4-22 and MCDOT specifications.

<u>Measurement and Payment:</u> Measurement will be on a lump sum basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Street Sign Bases which will be paid at lump sum price per each as specified in the Bid Schedule and shall include all labor and materials.

Item 18 – 4" White Thermoplastic Traffic Stripe, MCDOT Standard Specifications Section 462, Complete

<u>Description:</u> Thermoplastic Pavement Markings in Section 462.3.2 of the MCDOT Supplement to the MAG Standard Specifications should be revised as follows:

Thermoplastic pavement markings shall not be applied to any new asphalt pavement surface within 30-days after pavement placement or after the placement of a surface treatment.

<u>Measurement and Payment:</u> Payment for Traffic Stripe will be paid at the lump sum price as specified in the Schedule of Bid Items and shall include all labor and materials including temporary paint striping.

Item 19 - 4" Yellow Thermoplastic Traffic Stripe, MCDOT Standard Specifications Section 462, Complete

<u>Description:</u> Thermoplastic Pavement Markings in Section 462.3.2 of the MCDOT Supplement to the MAG Standard Specifications should be revised as follows:

Thermoplastic pavement markings shall not be applied to any new asphalt pavement surface within 30-days after pavement placement or after the placement of a surface treatment.

<u>Measurement and Payment:</u> Payment for Traffic Stripe will be paid at the lump sum price as specified in the Schedule of Bid Items and shall include all labor and materials including temporary paint striping.

Item 20 - Reflectorized Raised Pavement Marker (Type D, Yellow 2-Way), Complete

<u>Description:</u> Raised Pavement Marker shall be installed per MCDOT Standard Specifications Section 463.

<u>Measurement and Payment:</u> Measurement will be on a lump sum basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Pavement Markers which will be paid at the lump sum price as specified in the Bid Schedule and shall include all labor and materials.

Item 21 - Reflectorized Raised Pavement Marker (Type G, Clear, 1 Way), Complete

<u>Description:</u> Raised Pavement Marker shall be installed per MCDOT Standard Specifications Section 463.

<u>Measurement and Payment:</u> Measurement will be on a lump sum basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Pavement Markers which will be paid at the lump sum unit price as specified in the Bid Schedule and shall include all labor and materials.

Item 22 - 2-Way Reflective Blue Pavement Marker for Fire Hydrants per COS Standard Detail 4-23, Complete

Description: Raised Pavement Marker shall be installed per City of Surprise Standard Detail 4-23.

<u>Measurement and Payment:</u> Measurement will be on a lump sum basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for Pavement Markers which will be paid at the lump sum price as specified in the Bid Schedule and shall include all labor and materials.

Item 23 – Relocate Air Release Valve per EPCOR Specifications, Complete

<u>Description:</u> Relocation of air release valve and adjustment of blow off box to accommodate concrete barrier and new grading.

<u>Measurement and Payment:</u> Payment for Air Release Valve relocation will be paid as lump sum as specified in the Bid Schedule and shall include all labor and materials.

Item 24 - Earthwork for Open Channels, Complete

<u>Description:</u> Earthwork for Open Channels shall conform to Section 215 of the MAG Standard Specifications except as modified as follows:

<u>General:</u> The work under this Item shall consist of clearing, grubbing and earthwork within the right-of-way and drainage easement including excavating, sloping, rounding tops and ends of excavations, hauling, loading, depositing, conditioning, spreading and compacting the material complete in place and disposal of surplus material.

The Contractor shall haul off and dispose of all surplus material in accordance with federal, state and local regulations.

<u>Measurement and Payment:</u> Measurement and Payment for Channel Excavation shall be on lump sum basis and shall include excavating, sloping, rounding tops and ends of excavations, loading, depositing, conditioning, spreading, and compacting the material complete in place and disposal of surplus material.

Item 25 – Guard Rail, Complete

<u>Description:</u> Construct Guard Rail G-4 (2W) per MCDOT detail 3001 with departure end terminal per MCDOT detail 3007 and reflector tabs per MCDOT detail 3002 without curbs. Pavement to be per MCDOT Detail 3001.

<u>Measurement and Payment:</u> Measurement will be on a linear foot basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Guard Rail which will be at the unit price per linear foot as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

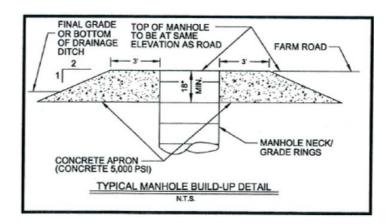
Item 26 – Concrete Channel

<u>Description:</u> Construct concrete channel and aprons as shown on plan per MAG Specification 705, Class "B" concrete, 4" thick.

<u>Measurement and Payment:</u> Measurement will be on a square yard basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the concrete channel which will be at the unit price per square foot as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 27 - APS Vault / Manhole Adjustment

<u>Description:</u> Adjust APS vaults/manholes to proper grade per APS detail below and MAG standards. Detail is to be used in lieu of the riprap shown on the plans at stations 12+60, 20+40, 28+30, and is also to be used at the electric manhole at station 36+20.



<u>Measurement and Payment:</u> Measurement will be on an each item basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Vault which will be at the unit price per each item as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 28 – EPCOR Snake Pit Adjustment

Description: Adjust EPCOR "Snake Pits" to proper grade per EPCOR and MAG standards.

<u>Measurement and Payment:</u> Measurement will be on an each item basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the "Snake Pit" which will be at the unit price per each item as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 29 - Concrete Grade Control Structure Removal and Backfill

<u>Description:</u> Excavate, remove, haul off and backfill concrete cut-of wall grade control structure per MAG Standard Detail 220-1.

<u>Measurement and Payment:</u> Measurement will be on an each item basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the removal and backfill which will be at the unit price per each item as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 30 – Concrete Apron per MAG Standard Detail 240

<u>Description:</u> Install concrete apron per MAG Standard Detail 240.

<u>Measurement and Payment:</u> Measurement will be on a square foot basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Concrete Apron which will be at the unit price per square foot as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 31 - Survey Marker per MAG Standard Detail 120-1, Type "A", Complete

Description: Survey Marker shall be installed per MAG Standard Detail 120-1, Type A.

<u>General:</u> The position of all survey monuments within a construction area will be preserved and remonumented.

Before the initiation of a project, a report would be filed by the Registered Land Surveyor, working for the City, with the CPM Project Manager and with the Land Survey Division of Surprise with the following information.

An itemized list of all monuments for which a search was made.

A list of all monuments found. This would detail the description and location of each.

The method by which every monument location would be preserved.

A detail of each monument showing the offsets used for preserving the location. A copy of the surveyors' field book would be sufficient.

Prior to construction, sufficient notification will be given to the Land Survey Unit of Surprise to allow for the transferring of elevations of those monuments utilized as benchmarks to areas outside of the construction zone.

All monuments will be offset and relocated according to accepted land surveying standards & practices and Arizona Boundary Survey Minimum Standards.

Arizona Revised Statute Title 33 Article 106 requires a Corner Record Survey to be filed with the Maricopa County Recorder's Office showing all monuments set, replaced, or reestablished. This Corner Record Survey will contain all the requirements cited in ARS 33-106.

ARS 33-106 pertains to public land corners (Section & Quarter Corners), The City of Surprise requires that ALL survey monuments within a construction project be treated as if they are public land corners and requires a Corner Recordation Form be filed for each.

Copies of the field notes replacing or resetting all monuments along with copies of completed Corner Record Forms will be submitted to the City of Surprise Land Survey Division for review.

<u>Measurement and Payment:</u> Payment for Survey Markers will be paid at the unit price of each as specified in the Bid Schedule and shall include all labor and materials.

Item 32 - 3" SCH40 Electrical Conduit

<u>Description:</u> Trench, install and backfill 3" Sch40 electrical traffic signal control conduit per COS DET 4-06 and 4-16A.

<u>Measurement and Payment:</u> Measurement will be on a liner foot basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Electrical Conduit which will be at the unit price per linear foot as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 33 - No.7 Pull Box

<u>Description:</u> Trench, install and backfill No. 7 Pull Box per ADOT standards TS 1-3.

<u>Measurement and Payment:</u> Measurement will be on an each item basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Electrical Conduit which will be at the unit price per each item as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 34 - Adjust Water Blow Off Box

Description: Adjust Water Blow Off Box to grade per MAG Special Section 345

<u>Measurement and Payment:</u> Measurement will be on an each item basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Blow Off which will be at the unit price per each item as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

Item 35 – Adjust Gas Valve

Description: Adjust Gas Valve to grade per Southwest Gas requirements.

<u>Measurement and Payment:</u> Measurement will be on an each item basis and the quantity specified in the Schedule of Bid Items will be the quantity used to calculate the payment for the Blow Off which will be at the unit price per each item as specified in the Bid Schedule and shall include all labor, equipment and materials for a complete installation.

END OF SPECIAL PROVISIONS